

Table of Contents



181AS 18L8025Q

GETTING STARTED

INTRODUCTION	2
SAFETY	2
INSTALLATION LOCATION	3
CORRECT HANDLING	3
ACCESSORIES	3
CONNECTION TO PC	4-6
DESCRIPTION OF CONTROLS	7-9
AUDIO FUNCTION CONTROL	10
HOW TO USE THE OSD [CONTROL LEVEL STRUCTURE]	11-23
SETTING UP GUIDE	FOLDOUT

HOW TO USE THE ON SCREEN DISPLAY (OSD)

OSD TIMER	12
FIRST WINDOW	
BRIGHTNESS	13
CONTRAST	13
VOLUME	14
STARTING CLOCK & PHASE ADJUSTMENTS(Non OSD)	14
CLOCK ADJUSTMENT	15
PHASE ADJUSTMENT	15
SECOND WINDOW	
VERTICAL POSITION	16
HORIZONTAL POSITION	16
DISPLAY SIZE	17
EXPAND MODE OPTIMIZATION	17

THIRD WINDOW	
5500°K, 6500°K OR 9300°K COLOR TEMPERATURE	18
USER PRESETS	19
FOURTH WINDOW	
LANGUAGE	20
OSD CONTROLS	20
VIDEO INPUT PRIORITY	21
POWER SAVING	21
ROTARY DEFAULT	22
EXIT OR RESET	23

ADDITIONAL INFORMATION

OSD WARNING SIGNAL	24-25
PIN ASSIGNMENT	25
BNC CONNECTOR	25
POWER SAVING & ACCEPTABLE RESOLUTION MODE	26
SPECIFICATIONS	26
WHAT TO DO IF SOMETHING ISN'T WORKING	27
INDEX	28
GLOSSARY	29

Other language versions

FRENCH (FRANCAIS)	29
SPANISH (ESPAÑOL)	57

appendix

ENGLISH	INFORMATION FOR USERS IN THE U.S.	A1
	FCC DECLARATION	A2
	ENERGY DECLARATION	A3
	TCO'99	A4-A5
	INFORMATIONS FOR UK ONLY	A6
FRANÇAIS	FCC DECLARATION	A7
DEUTSCH	GS / ACHTUNG	A8

BECAUSE OF CONTINUOUS PRODUCT IMPROVEMENTS,
THE INFORMATION MENTIONED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.



Introduction and Safety

E
N

Introduction

The Philips Brilliance181AS Flat Panel Monitor satisfies the need of high-end corporate and professional users. This monitor is for those who are seeking advanced design, a small footprint, high quality picture and ergonomic features in a monitor that takes minimal desk space. Its innovative technology delivers outstanding viewing angle and picture quality, zero emissions, and low-energy consumption.

Features

EXCELLENT DISPLAY QUALITY

- 18.1 inch viewable area display - comparable to the viewable screen size of a 19-inch CRT monitor, with even better picture clarity and geometry.
- Full compatibility with all standard video cards and all common VESA modes up to 1280 x 1024 resolution with 30 to 82 kHz horizontal scanning.
- State of the art image processing for optimal full screen image expansion at resolutions for DOS, VGA 640 x 480, SVGA 800 x 600, XGA 1024 x 768 and SXGA 1280 x 1024.
- Two separate video inputs with automatic priority setting and one touch input selection.

ERGONOMIC DESIGN

- To protect the LCD panel against wear and scratches, an optional protective cover can be ordered separately. Please

ask your dealer.

- Detachable pedestal for swing arm or wall mount applications. A special hinge design on the monitor ensures full tilt and rotation adjustability even on the simplest mount.
- Easy OSD with five (5) language text.
- Mouse controlled operation via USB device with CustoMax™ software.
- TCO '99 approved

OTHERS

- 1+1W stereo front-firing audio and microphone
- USB Bay for connection to the optional powered hub with four (4) downstream ports
- Anti-theft Kensington® lock socket and OSD lock to prevent tampering; especially useful at point-of-sale and customer interaction sites.

Note: Your monitor operates according to the VESA DDC level 1/2B. Only computers and software that support the same guidelines and operate at the same or a higher level can make use of this feature. If your computer does not support the relevant guidelines, you can still use your monitor and computer. However, you may need to manually specify the appropriate resolution in the software or computer.



As an ENERGY STAR® Partner, PHILIPS has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Contact us at our web site: [HTTP://www.pcstuff.philips.com](http://www.pcstuff.philips.com)

Safety precautions and maintenance

- Unplug the monitor, if you are not going to use it for an extensive period of time.
- Unplug the monitor, if you need to clean it with a slightly damp cloth. Wiping the screen with a dry cloth is possible when the power is off. However, never use alcohol, solvents, or ammonia-based liquids.
- Consult a service technician if the monitor does not operate normally when following the instructions in this manual.
- The casing cover should be opened only by qualified service personnel.
- Keep the monitor out of direct sunlight and away from stoves or any other heat source.
- Remove any object that could fall into the vents or prevent proper cooling of the monitor's electronics.
- Do not block the ventilation holes on the cabinet.

- Keep the monitor dry. To avoid electric shock, do not expose it to rain or excessive moisture.
- When positioning the monitor, make sure the power plug and outlet are easily accessible.
- If turning off the monitor by detaching power cable or DC power cord, wait for 6 seconds, then attach the power cable or DC power cord for normal operation.

End-of-life disposal

Your new monitor contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

Please find out about the local regulations on how to dispose of your old monitor.

ENERGY STAR is a U.S. registered mark.

IBM and IBM PC are registered trademarks of International Business Machines Corporation.

Apple, Macintosh, Quadra, Performa, Power PC and Centris are registered trademarks of Apple Computer, Inc.



Installation Locations

AVOID HEAT AND EXTREME COLD

- Do not store or use the LCD monitor in locations exposed to heat, direct sunlight, or extreme cold.
- Avoid moving the LCD monitor between locations with large temperature differences. Choose a site falling within the following temperature and humidity ranges.

Temperature: 5-35°C 41-95°F

Humidity: 20-80% RH

- Do not subject the LCD monitor to severe vibration or high impact conditions. Do not place the LCD monitor inside a car trunk.

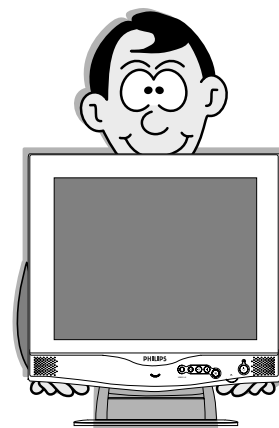
- Take care not to mishandle this product by either knocking or dropping during operation or transportation.

- Do not store or use the LCD monitor in locations exposed to high humidity or a dusty environment. Also do not allow water or other liquids to spill on or into the LCD monitor.

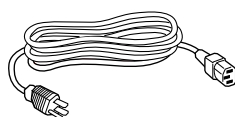
E
N

Correct handling of the monitor

1. When handling the monitor, grip the bottom firmly with both hands and ensure that the front panel faces outward before lifting. Please refer to the diagram on the right.
2. Handling the monitor with care prevents scratching and damage. If the monitor becomes damaged, immediately disconnect the power from the unit and have it checked by a qualified service person before using it again.
3. To prevent fire or electrical shock, do not drop the monitor.
4. When moving the monitor, be sure to unplug all power cords in order to avoid injury or damage to the equipment.



Accessories



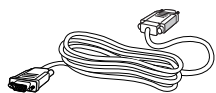
1. Power cable



5. Quick Set-up Guide



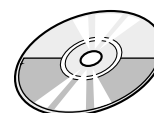
9. Windows disk drive



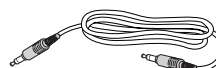
2. Signal cable



6. User manual



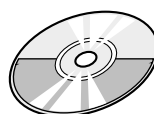
10. CD-ROM (User manual)



3. Audio in cable (Blue)



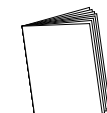
7. Warranty card



11. CustoMax (for USB control)



Microphone out cable (Red) (connect to sound card)



8. CustoMax User's manual



12. Macintosh adapter (optional)



4. USB cable

Where to buy extra accessories : " Please contact your local Philips dealer".



Connection to PC

VIDEO SETTINGS

Before connecting your LCD Monitor to the PC, make sure that the computer's video settings (resolution and frequency) are in accordance with those below.

Vertical Refresh Rate : 56Hz - 76Hz
Horizontal : 30KHz - 82KHz

NOTE : 1. The maximum resolution of this LCD monitor is 1280 x 1024 at maximum Vertical Refresh Rate of 76Hz
2. Recommended video mode is 1280 x 1024 at Vertical Refresh Rate of 60Hz.
3. Interlace mode is not applicable.

CD Installation

When prompted by the Operating System for the LCD Monitor drivers, insert CD and select the CD-ROM drive as the disk containing the drivers.

Windows 98

Windows 98 will auto-detect the new monitor and set-up the correct parameters. If it does not auto-detect the new monitor, use Manual Install.

To manually install or update the driver, click on START, SETTINGS, CONTROL PANEL, DISPLAY, SETTINGS tab, ADVANCED, MONITOR tab, CHANGE. This will start the "Update Device Driver Wizard". Follow the prompts to install the driver.

Windows 95

Click on START, SETTINGS, CONTROL PANEL, DISPLAY, SETTINGS tab, ADVANCED PROPERTIES MONITOR tab, CHANGE, HAVE DISK. Install the CD-ROM.

Connection to PC

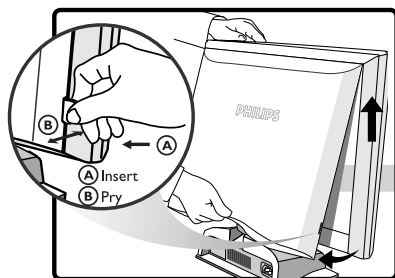


Connection to PC

Follow the steps below to connect your LCD Monitor to PC.

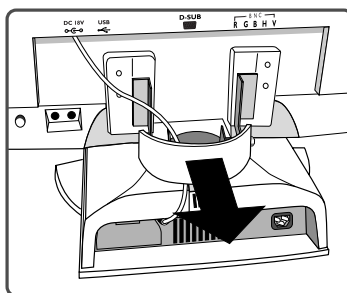
1

To remove the back cover, use a coin to disengage the clips on each side.



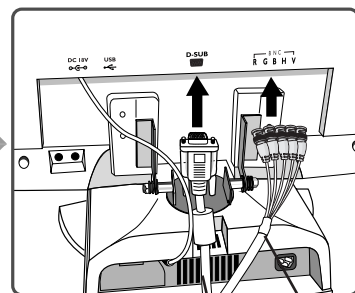
2

Remove the plastic ring from the hinge.



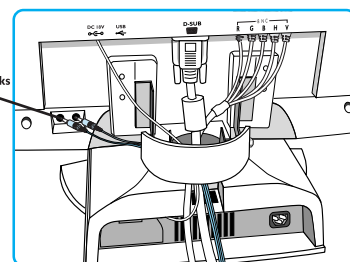
3

Plug in the video cable to the D-sub or BNC (optional) connector.



video cable
5-BNC cable (optional)

4

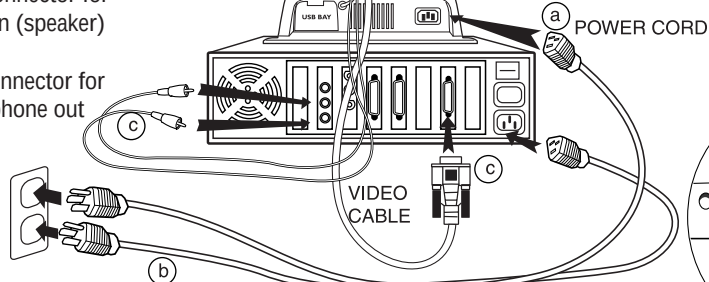


Connect the audio cables to the audio jacks.

7

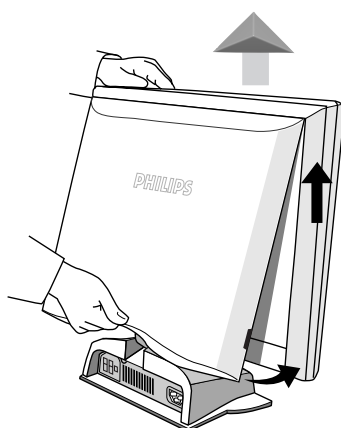
Blue connector for audio in (speaker)

Red connector for microphone out



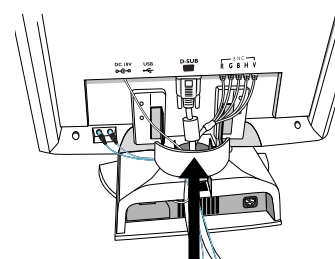
- a. Connect the power cord to the monitor.
- b. Plug power cord into a grounded power outlet.
- c. Connect the monitor cable to the computer.

6



Replace back cover of the monitor.

5



Cover the cables with the plastic ring and put it back on the hinge.

Refer to the owner's manuals included with your earphones and microphone for a detailed guide to setting up these items.



Connection to PC

USB Control (INCLUDED)

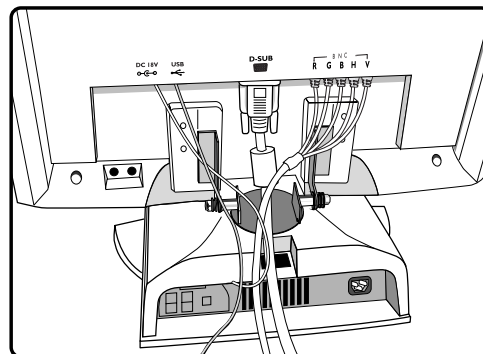
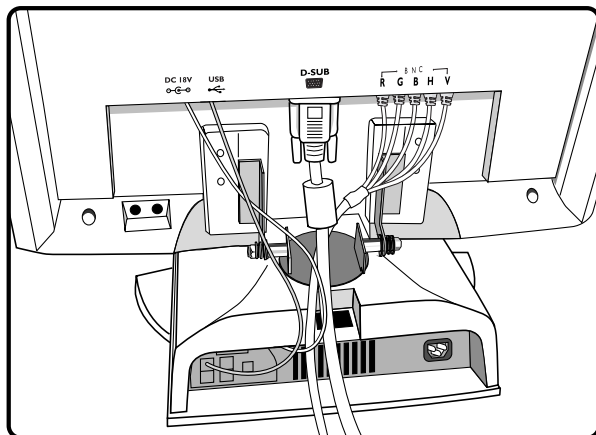
Philips 181AS comes with special software, CustoMax™, to control the monitor from your PC via a USB connection.

To install the USB cable for this control function.

181AS LCD monitor is equipped with an optional USB Hub also.

You may connect the monitor directly or connect to the optional USB hub to the PC down stream port.

181AS LCD monitor is an USB device also.



to computer's
USB port

Refer to the "Setting Up Your Philips Flat Panel Monitor" foldout for a more detailed guide to set up your monitor.

USB HUB INSTALLATION (SOLD SEPARATELY)

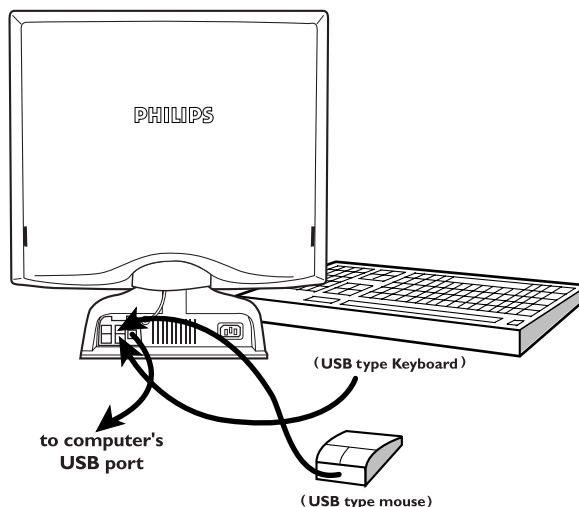
USB (Universal Serial Bus) is an innovation in connecting your IBM-compatible computer to your monitor. By using the optional USB HUB, you will be able to connect optional USB type keyboards, mice, printers, and other peripherals to your monitor instead of having to connect them to your computer. This will give you greater flexibility in setting up your system. Plus, you will have true plug-and-play capability. Philips provides for the optional USB Hub so you will be ready to take advantage of this advancement in computer development.

For an IBM-compatible Computer:

1. Turn off the computer.
2. Insert the (optional) USB Hub to the monitor .
3. Connect the USB cable to the monitor's USB Hub and the computer. (Computer must have USB port.)
4. Connect USB type mouse or USB type keyboard (or both) to the monitor's USB Hub.
5. Turn on the monitor. Then turn on the computer.
6. With the installation of the correct software, you will be able to connect USB peripherals to the monitor's USB Hub.

Note:

1. If the USB device was halt down, please replug the USB cable , then the HOST will make self-test and enable the device function automatically.
2. USB Hub and cables sold separately. The length of USB cable should be less than 3 meters. The USB Bay is located in the base at the back of the monitor.
3. Please refer to the USB Hub's manual and installation guide for more details.



Refer to the "Setting Up your Philips flat panel monitor" foldout for a more detailed guide to set up your monitor.

Description of Controls & Connectors



FRONT VIEW

Built-in Microphone

– Allows you to “speak” into your computer.

Video 1-2 – Allows you to switch between two video inputs (D-SUB, BNC selection).

e.g. Connect D-SUB and 5-BNC video cable to the monitor from different PC at the same time. Then press “Video1-2” button for interchange of Video Display.

AUTO Adjust Button – Press this button for optimal picture display. Clock, Phase, Vertical position and Horizontal position are adjusted automatically.

Mute Button – Mutes the sound from the speakers and the earphones. Press to turn mute on or off. See next page for details.

On Screen Display (OSD) button – Brings up the On Screen Display and helps you navigate through it.

Brightness Button – Press this button and use the rotary knob to adjust the brightness of the screen.

LED – Light Emitting Diode turns green when the monitor is on.

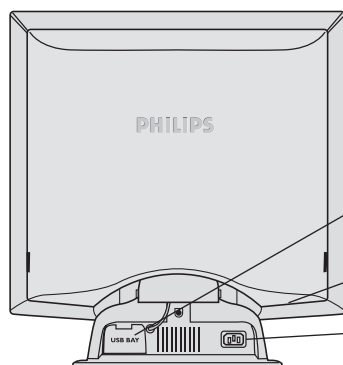
Power Button – Turns the monitor On or Off.

Speakers – Transmit sounds from your computer or amplifier.

Earphone jack

Rotary Knob – Helps guide you through the On Screen Display. When not used with the OSD button, can also adjust the volume. See page 14.

REAR VIEW



USB Bay – Slot for plugging in USB Hub. Optional hardware that allows true Plug-and-Play. See page 6 for installation details.

Kensington Lock Socket – A special feature to lock your monitor for anti-theft.

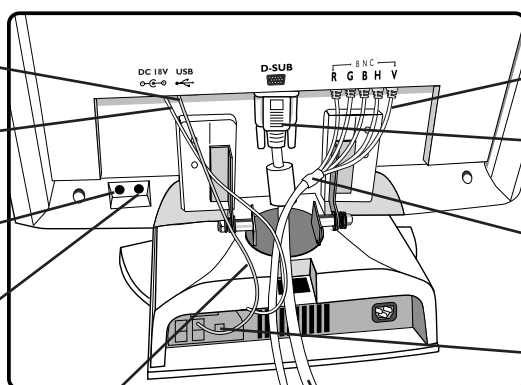
Power Plug – Plug the AC power cord in here. See “Setting up” foldout for details.

USB connector

DC power cord

Audio in connector
(Speaker)

Microphone out connector



USB cable

Video cable

BNC – R, G, B, H and V input.

D-Sub connector

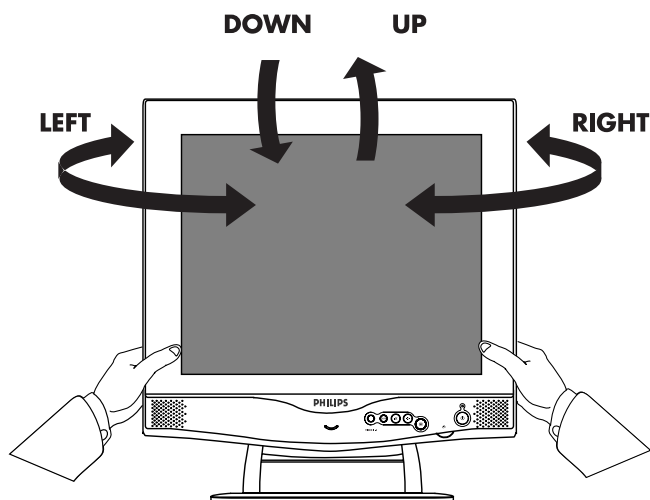
5-BNC cable (optional)

USB port



Description of Controls

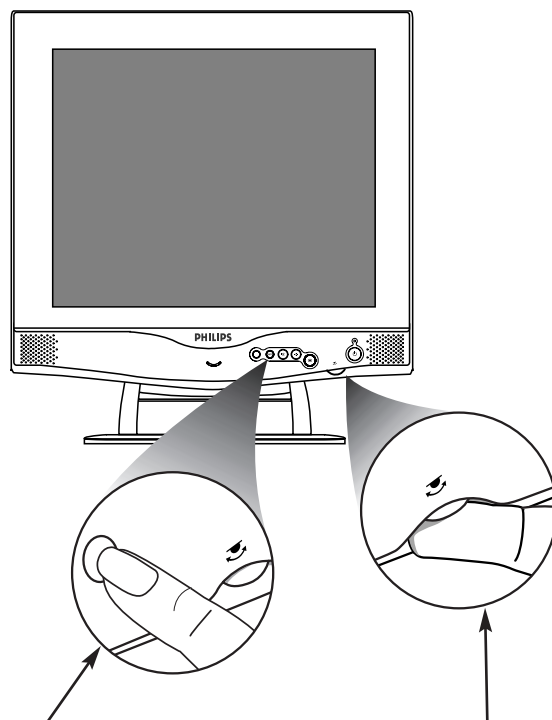
E
N



Pedestal - With the built-in pedestal, you can tilt and swivel the monitor to the most comfortable viewing angle. For best viewing, always place the monitor at eye level. This pedestal can be separated from the main LCD monitor body for mechanical arm or wall-mount applications (as specified within manufacturer's recommendations).

NOTE: DO NOT REMOVE WITHOUT FIRST READING "REMOVING INSTRUCTIONS" FOUND IN THE GUIDE BUNDLED WITH THE ACCESSORIES.

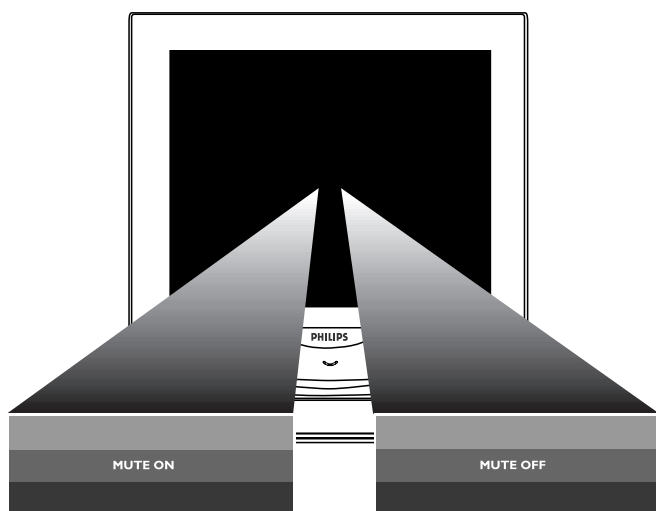
Using the OSD Button - To use the OSD function, please refer to details starting on page 12.



Using the Auto Button - Press this button for optimal picture display. Clock, Phase, Vertical position and Horizontal position are adjusted automatically.

Using Rotary Knob for AUDIO - Turn rotary knob to adjust audio level.

NOTE: THE ROTARY KNOB IS ALSO USED FOR OSD OPERATION WHEN THE OSD BUTTON IS PRESSED.



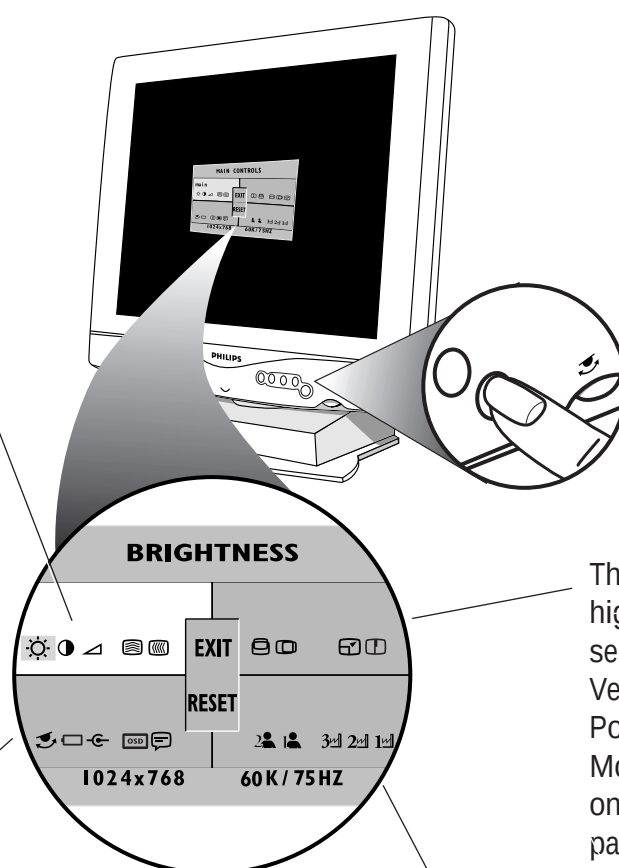
Using the Mute Button - To turn the mute On or Off press the mute button. For Audio model only.

Description of Controls



On Screen Display - Your monitor is preset at the factory for normal operation. However, you can adjust it by using the On Screen Display Button and the Rotary Knob as described on Page 7. Below is a brief description of the four windows of the On Screen Display function.

The first window highlighted after the OSD has been selected. By default, the select block will be on “Brightness”. It has five features: Brightness, Contrast, Volume, Phase Adjustment and Clock Adjustment. Details on adjusting these features are on pages 13-15.



OSD Button

This is the second window highlighted after the OSD has been selected. The four features are: Vertical Position, Horizontal Position, Display Size and Expand Mode Optimization. More details on adjusting these features are on pages 16-17.

The fourth window features: Language, OSD Controls, Video Input Priority, Power Saving, and Rotary Default. Details on adjusting these features are on pages 20-23.

Note: Language allows you to change the On Screen Display from English to French, Spanish, German, or Italian. See Page 20 for more details.

The third window highlighted is the adjustment of the Color Temperature. Select the color temperature you prefer or make your own with User Setting 1 or 2. Details are on pages 18-19

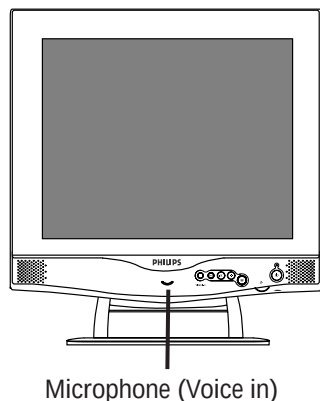


AUDIO FUNCTION CONTROL

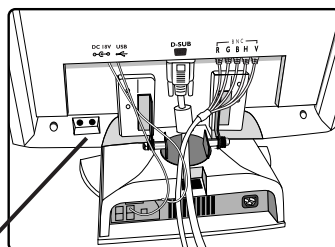
E
N

Microphone cable (red) connection

FRONT VIEW
(monitor)



REAR VIEW
(monitor)



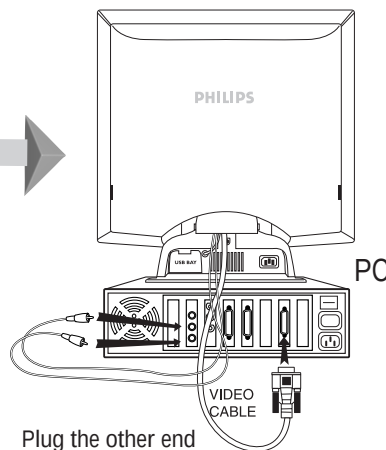
Plug the red Microphone connector into the Microphone out port of your monitor.

Microphone out cable (red)



To Monitor ↔ To PC

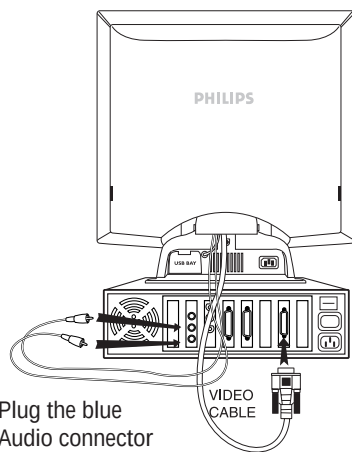
Monitor



Plug the other end of Microphone connector into the sound input port of your computer.

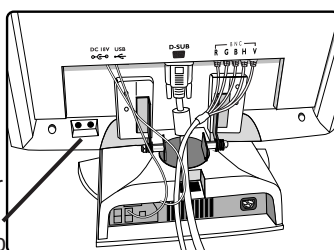
Note: To use the supplied audio cable or an equivalent cable of less than 3m.

Audio cable (blue) connection



Plug the blue Audio connector into the sound output port of your computer.

Rear view of monitor



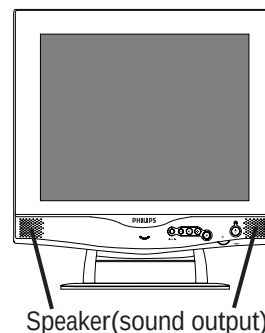
Plug the other end of Audio connector into the Audio in port of your monitor.

Audio in cable (blue)



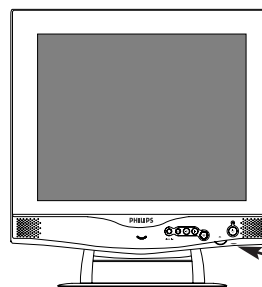
To PC ↔ To Monitor

Front view of monitor



Note: To use the supplied audio cable or an equivalent cable of less than 3m.

or



to Earphone jack



How to Use the On Screen Display (OSD)

OSD Menu control level structure

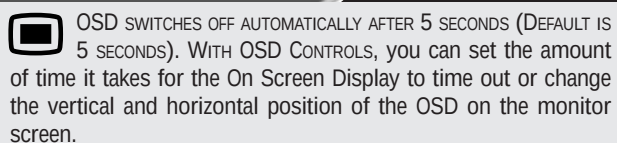


E
N

WINDOW	FIRST LEVEL	SECOND LEVEL	THIRD LEVEL
First Window	Brightness Contrast Volume Phase adjustment Clock adjustment		
Second Window	Vertical position Horizontal position Display Size	Full Screen Real Mode User Setting	
	Expand Mode Optimization	Text Picture	
Third Window	9300°K 6500°K 5500°K User 1 User 2	Red color Green color Blue color Red color Green color Blue color	
Fourth Window	Language	English Deutsch Français Italiano Español	5 10 25 Off
	OSD Controls	Timer Vertical position Horizontal position Product Information	
	Video Input Priority	BNC VGA D-SUB	
	Power saving	On Off	
	Rotary Default	Brightness Contrast Volume	
Exit	Save	Yes No	
Reset	Reset all settings	Yes No	



OSD Controls



12

How to Use the On Screen Display (OSD)

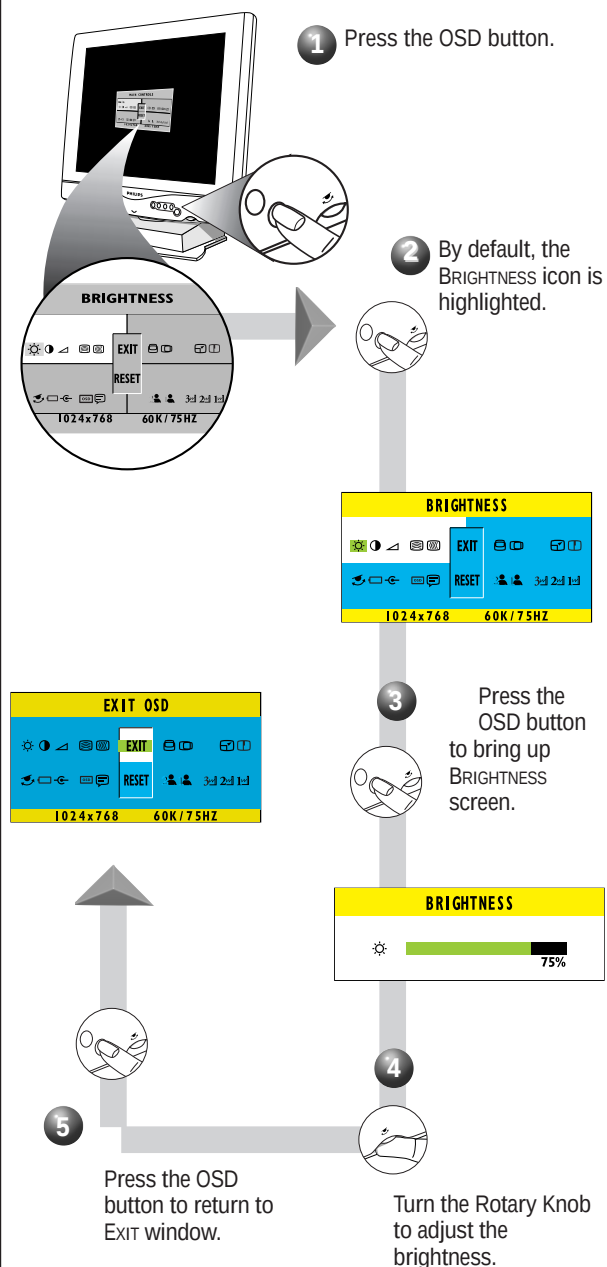


First window

E
N

Brightness

To adjust your screen's brightness, follow the steps below. Brightness is the overall intensity of the light coming from the screen.



Smart Help

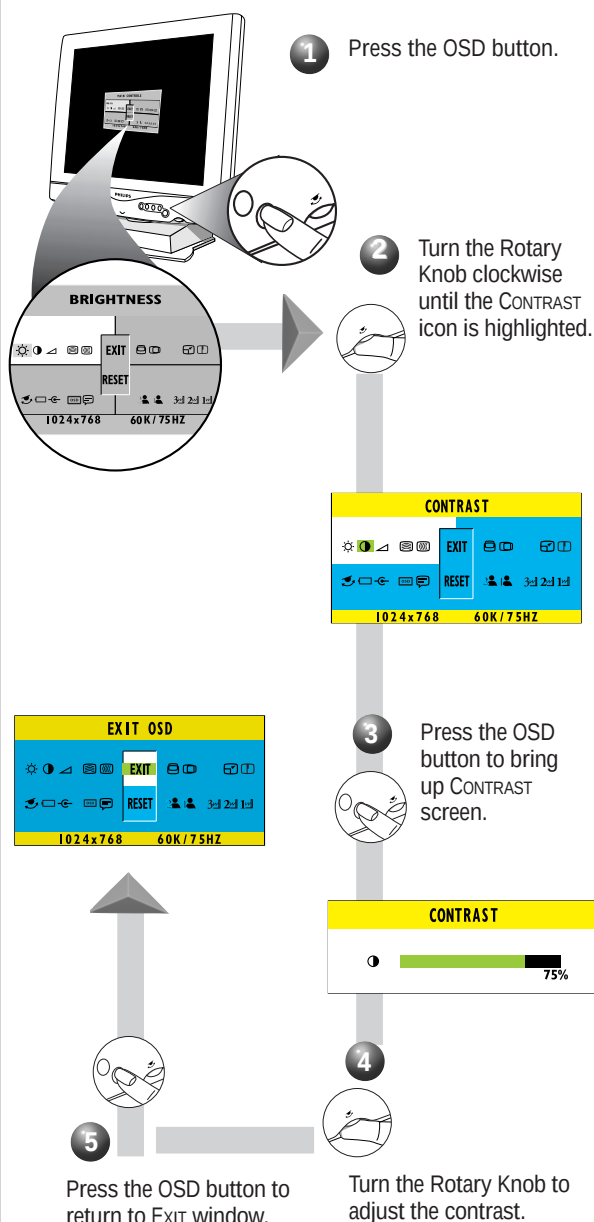
After returning to Exit . . .

. . . **to continue to Contrast**, turn the Rotary Knob clockwise until the CONTRAST icon is highlighted. Next, follow steps 3 - 5 under CONTRAST.

. . . **to exit completely**, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

Contrast

To adjust your screen's contrast, follow the steps below. Contrast is the difference between the brightest and darkest areas on the screen.



Smart Help

After returning to Exit . . .

. . . **to continue to Volume**, turn the Rotary Knob clockwise until the VOLUME icon is highlighted. Next, follow steps 3 - 5 under VOLUME (on the next page).

. . . **to exit completely**, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

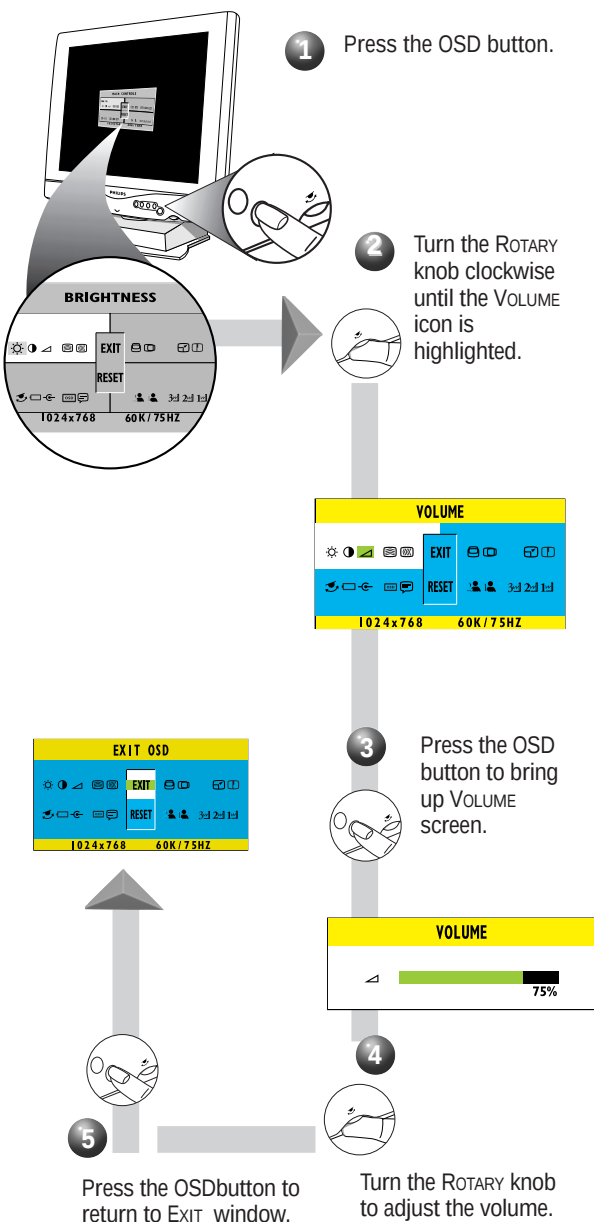


How to Use the On Screen Display (OSD)

First window

Volume

To adjust your monitor's audio volume, follow the steps below. The volume control adjusts the sound from the two front-cabinet speakers or the earphone jack.



Smart Help

After returning to Exit . . .

. . . **to continue to Clock Adjustment**, turn the ROTARY knob clockwise until the CLOCK ADJUSTMENT icon is highlighted. Next, follow steps 3-5 under CLOCK ADJUSTMENT.

. . . **to exit completely**, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

STARTING CLOCK & PHASE Adjustments

Due to different video signal input from the video card of PC, it is necessary to adjust the **CLOCK** and **PHASE** phenomenon for the optimal video display of LCD monitor. To start **CLOCK** and **PHASE** Adjustment, simply follow these steps:

Step 1 : Click on the Start button (Win95, Win98 or Win NT) and move your mouse pointer to highlight the word "Shut Down..." as shown in Fig.1.A.

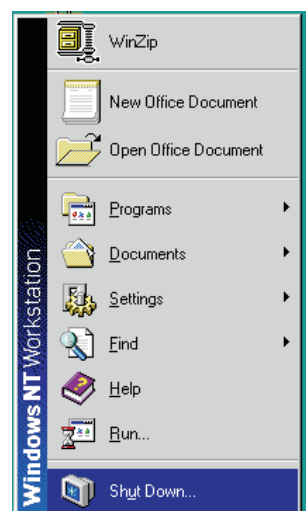


Fig.1.A

Step 2 : The menu of " Shut Down Windows " is as shown in Fig.1.B

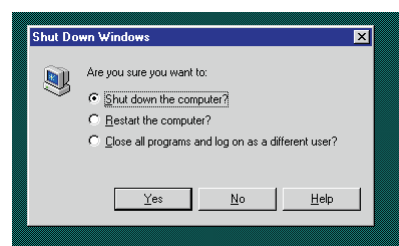


Fig.1.B

Step 3 : With the Shut Down Window still up on the screen, follow the **CLOCK** and **PHASE** Adjustment instructions on page 15 for the optimal video display.

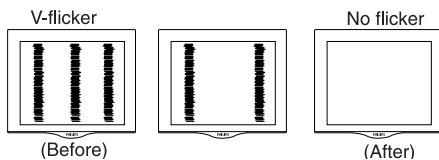
How to Use the On Screen Display (OSD)



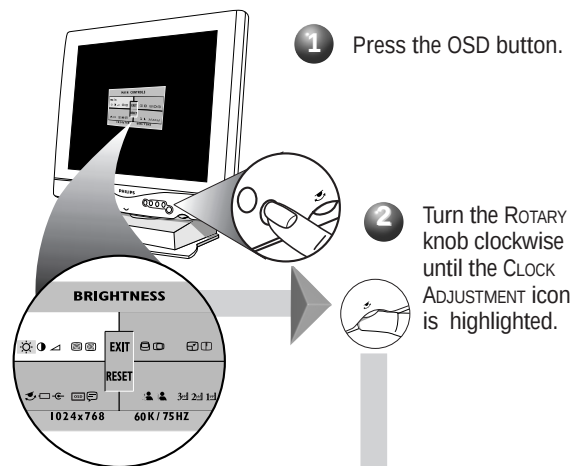
First window

Clock Adjustment

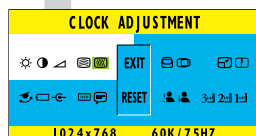
Clock Adjustment reduces the vertical flicker of the image on the screen to a minimum.



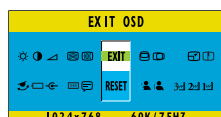
1 Press the OSD button.



2 Turn the ROTARY knob clockwise until the Clock ADJUSTMENT icon is highlighted.



3 Press the OSD button to bring up the Clock ADJUSTMENT screen.



5 Press the OSD button to return to EXIT window.

4 Turn the ROTARY knob until the image on the monitor does not flicker. (Vertical flicker)

Smart Help

After returning to Exit . . .

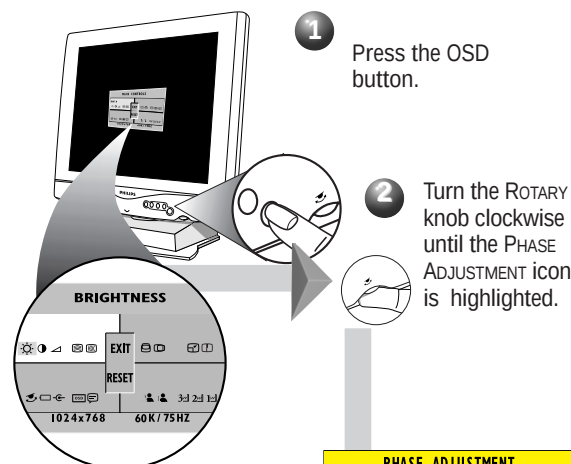
. . . to continue to the **Phase Adjustment**, turn the ROTARY knob clockwise until the PHASE ADJUSTMENT icon is highlighted. Next, press the OSD button. Follow steps 3-5 under PHASE ADJUSTMENT . . . to exit completely, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

Phase Adjustment

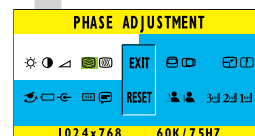
Phase Adjustment reduces the horizontal flicker of the image on the screen to a minimum.



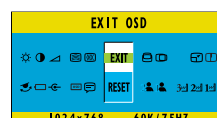
1 Press the OSD button.



2 Turn the ROTARY knob clockwise until the PHASE ADJUSTMENT icon is highlighted.



3 Press the OSD button to bring up PHASE ADJUSTMENT screen.



5 Press the OSD button to return to EXIT window.

4 Turn the ROTARY knob to adjust the Phase Adjustment.

Smart Help

After returning to Exit . . .

. . . to continue to the **Vertical Position**, turn the ROTARY knob until the VERTICAL POSITION icon in the second window is highlighted. Next, follow steps 3-5 under VERTICAL POSITION (on the next page).

. . . to exit completely, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)



How to Use the On Screen Display (OSD)

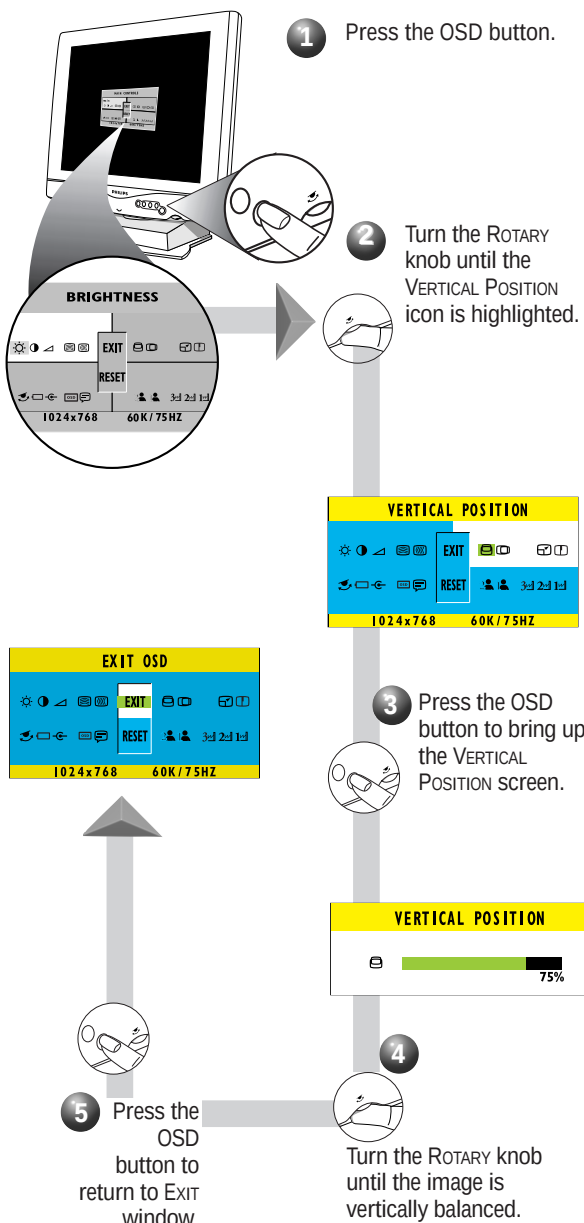
Second window

EN

Vertical Position



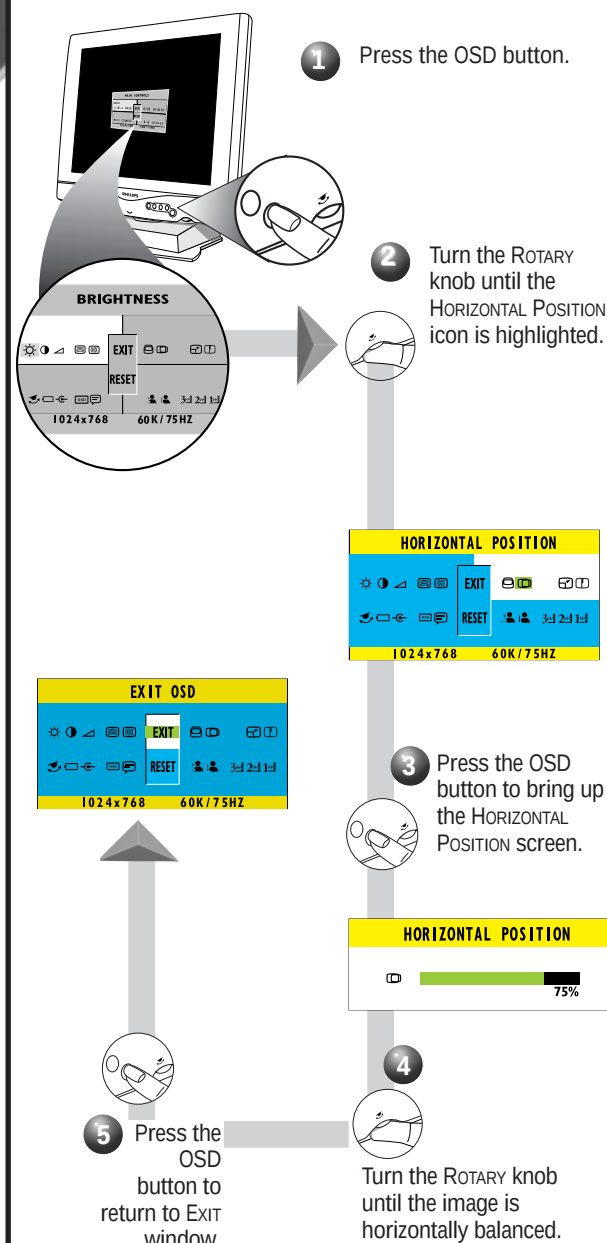
Vertical Position adjusts the image on your screen either up or down. Use this feature if the image does not appear centered.



Horizontal Position



Horizontal Position shifts the image on your screen either to the left or right. Use this feature if the image does not appear centered.



Smart Help

After returning to Exit . . .

. . . **to continue to the Horizontal Position**, turn the ROTARY knob until the HORIZONTAL POSITION icon is highlighted. Next, follow steps 3-5 under HORIZONTAL POSITION.

. . . **to exit completely**, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

Smart Help

After returning to Exit . . .

. . . **to continue to Display Size**, turn the ROTARY knob until DISPLAY SIZE is highlighted. Next, follow steps 3-5 under DISPLAY SIZE.

. . . **to exit completely**, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

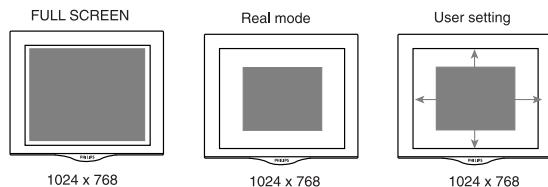
How to Use the On Screen Display (OSD)



Second window

Display Size

Display Size allows you to adjust picture size when the input video mode is under 1280 x 1024. It has 3 options, full screen, real mode, and user's setting.



1 Press the OSD button.

2 Turn the ROTARY knob until the DISPLAY SIZE icon is highlighted.

3 Press the OSD button to bring up the DISPLAY SIZE screen.

5 Press the OSD button to return to Exit window.

4 Turn the ROTARY knob to select FULL SCREEN, REAL MODE, OR USER SETTING.

Expand Mode Optimization

Expand Mode Optimization is available when the input video mode under 1280 x 1024. It helps you to select the best display quality for text - or graphic - oriented applications.

1 Press the OSD button.

2 Turn the ROTARY knob until the EXPAND MODE icon is highlighted.

3 Press the OSD button to bring up the EXPAND MODE screen.

4 Turn the ROTARY knob to adjust the monitor to TEXT or GRAPHIC mode.

5 Press the OSD button to return to Exit window.

Smart Help

After returning to Exit . . .

. . . **to continue to the Expand Mode Optimization**, turn the ROTARY knob until the EXPAND MODE OPTIMIZATION icon is highlighted. Next, follow steps 3-5 under EXPAND MODE.

. . . **to exit completely**, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

Smart Help

After returning to Exit . . .

. . . **to continue to Color Temperature**, turn the ROTARY knob until one of the COLOR TEMPERATURE icons is highlighted. Next, follow steps 3-5 under COLOR TEMPERATURE.

. . . **to exit completely**, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)



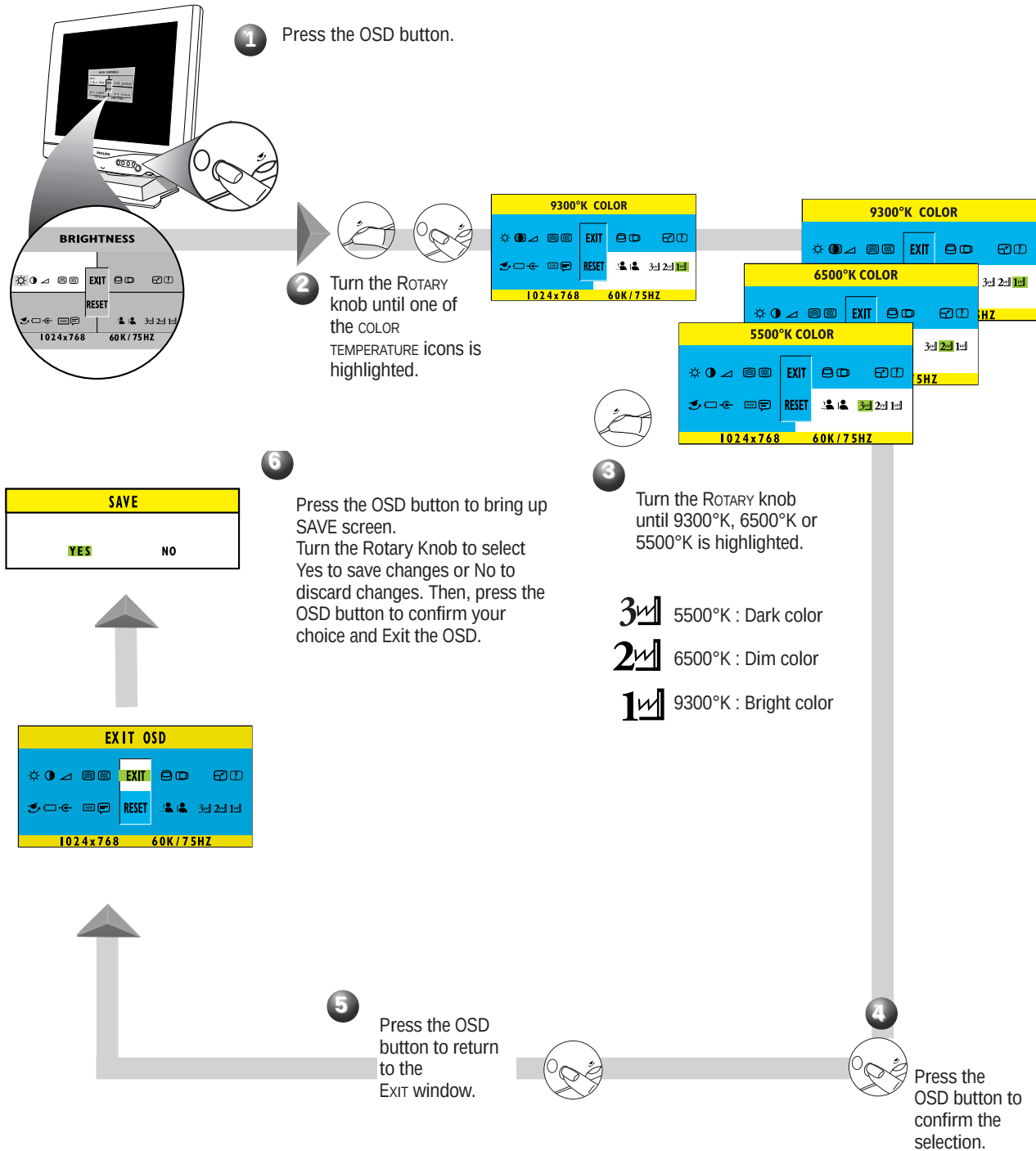
How to Use the On Screen Display (OSD)

Third window

5500° K, 6500° K or 9300° K Color Temperature (Video display change)

3 **2** **1** Your monitor has three preset options for color temperatures from which you can choose : 6500° K option for Desktop Publishing (DTP), 9300° K option for Computer Aided Design (CAD) work, or 5500° K option for photo retouch. When you select an option, the monitor automatically adjusts itself for that color temperature. the default setting for color temperatures is 6500° K.

E
N



Smart Help

After returning to Exit . . .

. . . **to continue to User Presets**, turn the ROTARY knob until one of the USER PRESET icons is highlighted. Next, follow steps 3- 8 under USER PRESETS on the next page.

. . . **to exit completely**, press the OSD button and choose either **SAVE** or **Don't SAVE** in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

How to Use the On Screen Display (OSD)

Third window

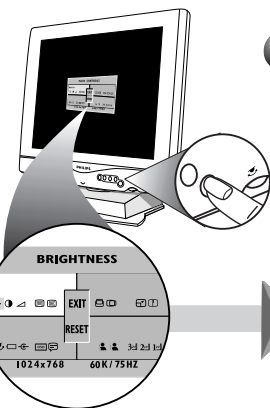


User Presets



Follow the steps below to set a custom color temperature. You can make individual adjustments for each color.

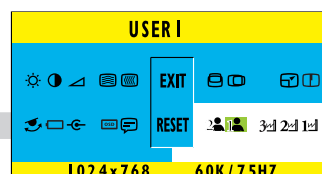
E
N



1 Press the OSD button.

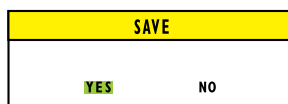
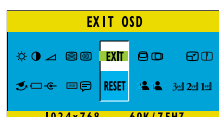


2 Turn the ROTARY knob until one of the USER PRESET icons is highlighted.



2 : Adjustment of the colors red, green and blue.

1 : Adjustment of the colors red, green and blue.



9

Press the OSD button to bring up SAVE screen. Turn the Rotary Knob to select Yes to save changes or No to discard changes. Then, press the OSD button to confirm your choice and Exit the OSD.



3 If necessary, turn the ROTARY knob until 1 of the USER PRESETS is highlighted. Next, press the OSD button to confirm the selection.



8 You will now be back at the Exit window. See SMART HELP below for options.



7 To exit USER PRESET 1, press the OSD button. Next, press the OSD button again to return to Exit window.



When done with green, press the OSD button. BLUE will be highlighted. Then, turn the ROTARY knob to increase or decrease the blue.

5



When done with red, press the OSD button. GREEN will be highlighted. Then, turn the ROTARY knob to increase or decrease the green.



4

First, RED will be highlighted.



Next, to adjust the red, press the OSD button again. Then, turn the ROTARY knob to increase or decrease the red.

Smart Help

After returning to Exit . . .

. . . to continue to User Preset 2, repeat steps 3 through 7, selecting USER PRESET 2.

. . . to continue to Language, turn the ROTARY knob until LANGUAGE ICON is highlighted. Next, press the On Screen Display button. Now, follow steps e - 5 under LANGUAGE on the next page.

. . . to exit the On Screen Display completely, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

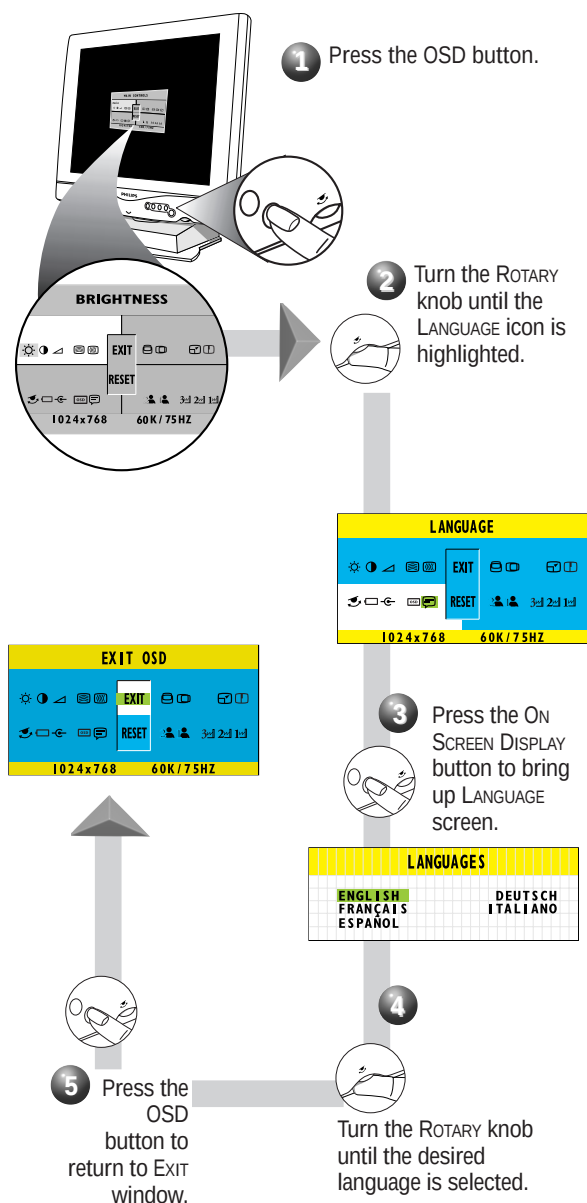


How to Use the On Screen Display (OSD)

Fourth window

Language

The ON SCREEN DISPLAY shows its settings in one of five languages. The default is English, but you can also select French, Spanish, German, or Italian.



Smart Help

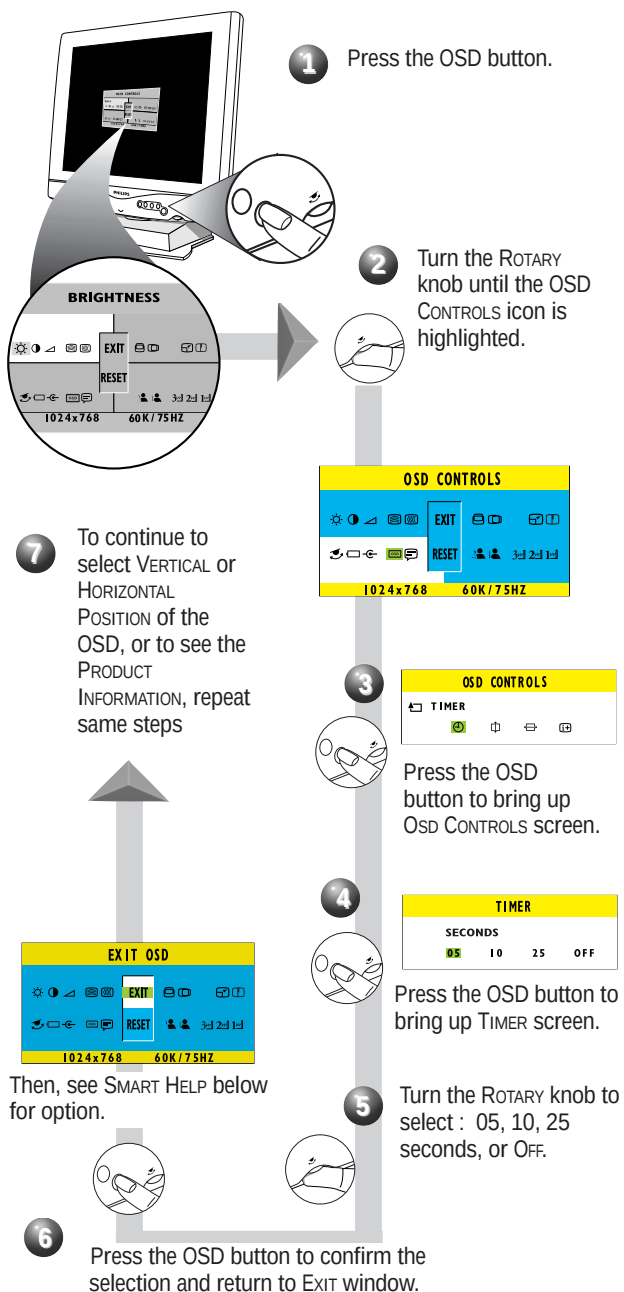
After returning to Exit ...

... to continue to OSD CONTROLS, turn the ROTARY knob until the OSD CONTROLS icon is highlighted. Next, follow steps 3-5 under OSD CONTROLS.

... to exit completely, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

OSD Controls

WITH OSD CONTROLS, you can set the amount of time it takes for the On Screen Display to time out or change the vertical and horizontal position of the OSD on the monitor screen. Besides, you can also view PRODUCT INFORMATION, including the serial number and hours of operation for your reference.



Smart Help

After returning to Exit ...

... to continue to VIDEO INPUT PRIORITY, turn the ROTARY knob until the VIDEO INPUT PRIORITY icon is highlighted. Next, follow steps 3-5 under VIDEO INPUT PRIORITY (on the next page).

... to exit completely, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

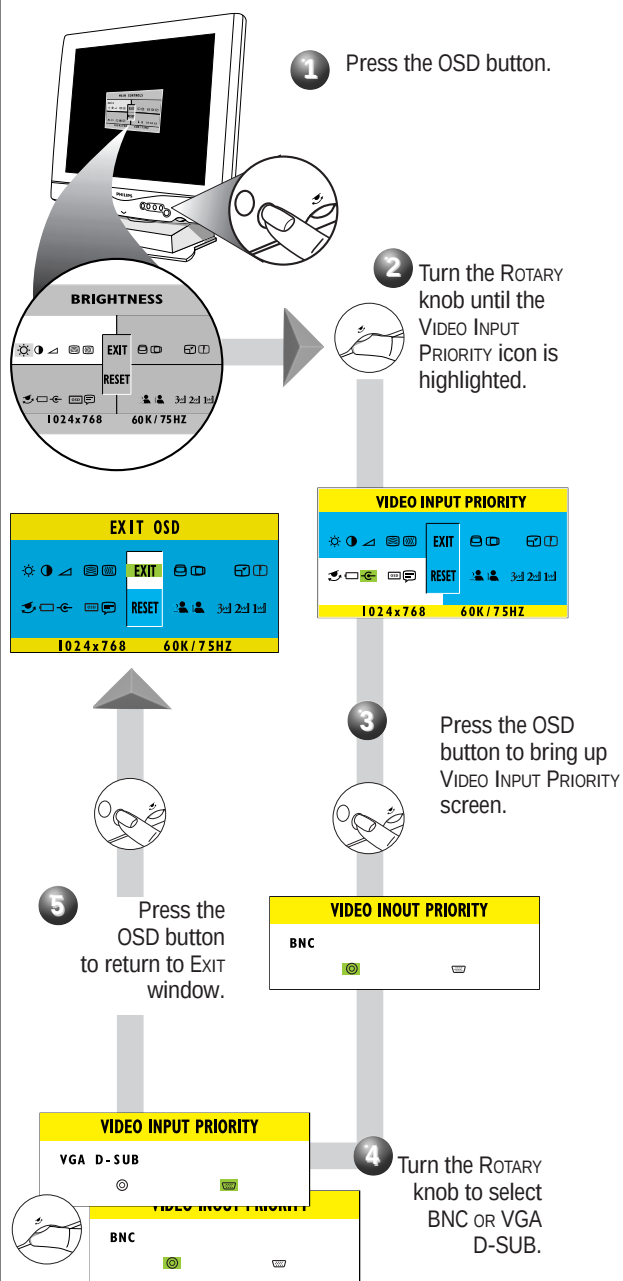
How to Use the On Screen Display (OSD)



Fourth window

Video Input Priority

THE VIDEO INPUT PRIORITY setting defines which video source is displayed by default on the screen when two video sources are available to the monitor.



Smart Help

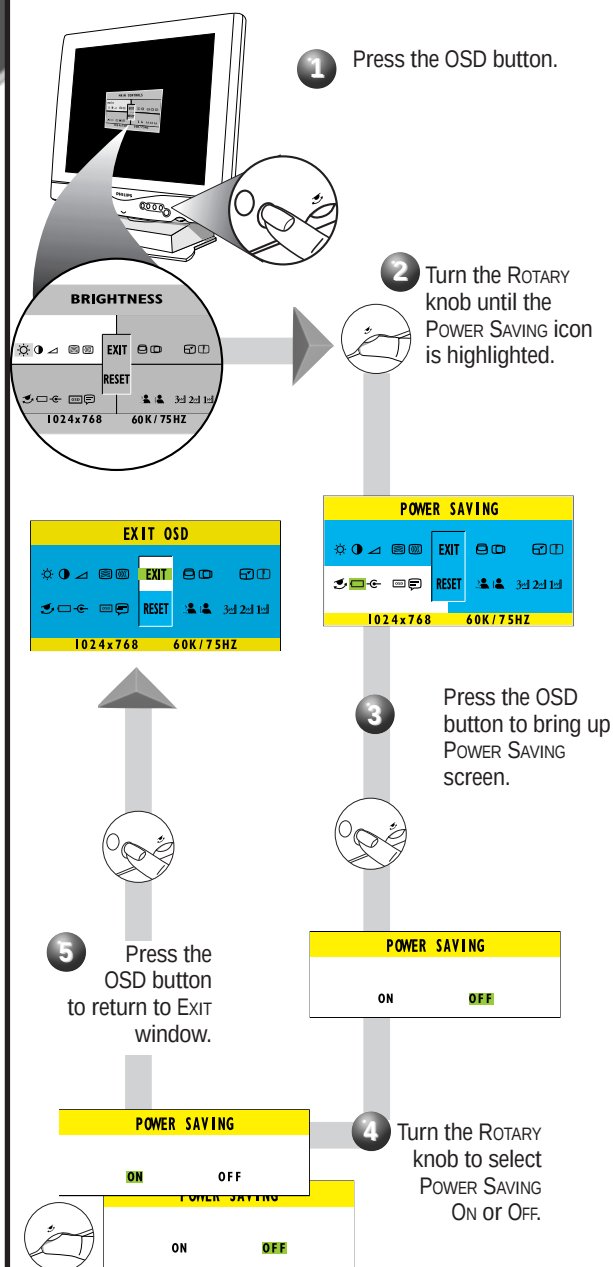
After returning to Exit ...

... **to continue to POWER SAVING**, turn the ROTARY knob until POWER SAVING is highlighted. Next, follow steps 3-5 under POWER SAVING.

... **to exit completely**, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

Power Saving

POWER SAVING helps save energy when the monitor is on but not being used. After a preset time, the screen will go blank. To select POWER SAVING, follow the steps below.



Smart Help

After returning to Exit ...

... **to continue to Rotary Default**, turn the ROTARY knob until the ROTARY DEFAULT icon is highlighted. Next, follow the steps 3-5 under ROTARY DEFAULT (on the next page).

... **to exit completely**, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)



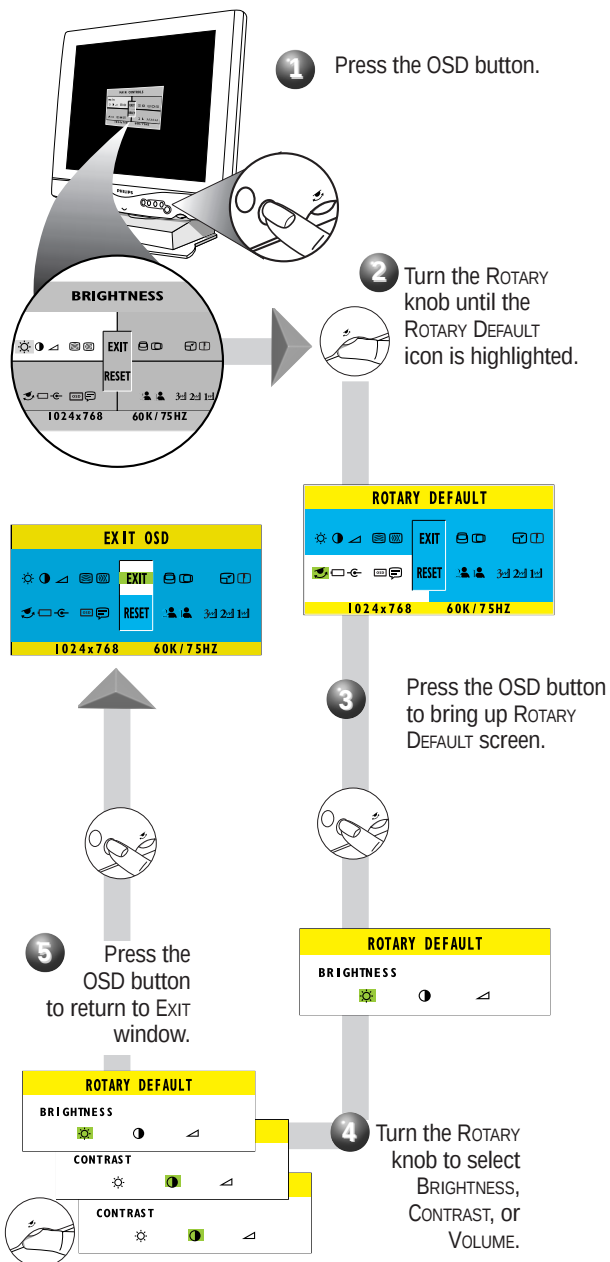
How to Use the On Screen Display (OSD)

Fourth window

Rotary Default



ROTARY DEFAULT allows you to pick which feature the ROTARY knob defaults to when used without first pressing the OSD button. The normal default is Volume. To select your Rotary Default, follow the steps below.



Smart Help

After returning to Exit ...

... **to continue to another window**, turn the ROTARY knob until that window is highlighted. Next, follow the instructions for that window.

... **to exit completely**, press the OSD button and choose either SAVE or Don't SAVE in setting mode, then push OSD button to exit OSD. (See page 23 for other exit options.)

How to Use the On Screen Display (OSD)



Exit or Reset

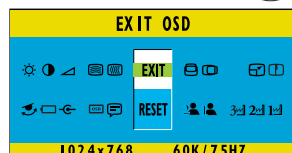
E
N

EXIT

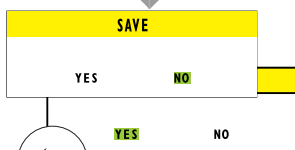
Choosing EXIT allows you to exit the OSD screen and save or discard changes you made to the monitor settings.



- 1 When you are at the first level control window. For example the BRIGHTNESS icon is highlighted.



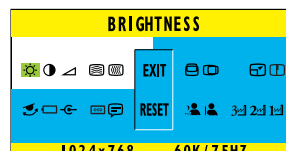
- 2 Turn the ROTARY knob until EXIT is highlighted. Next, press the OSD button.



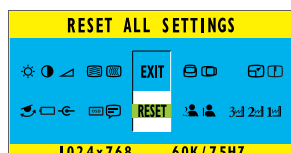
- 3 Turn the Rotary Knob to select Yes to save changes or No to discard changes. Then, press the OSD button to confirm your choice and exit the OSD.

Reset

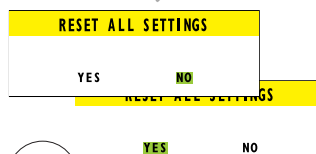
Choosing RESET returns all the settings for the current video mode to factory presets.



- 1 When you are at the first level control window. For example the BRIGHTNESS icon is highlighted.



- 2 Turn the ROTARY knob until RESET is highlighted. Next, press the OSD button.



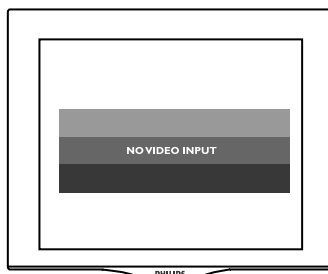
- 3 Turn the Rotary knob to select RESET ALL SETTINGS, Yes or No. Press the OSD button to EXIT.



Additional Information

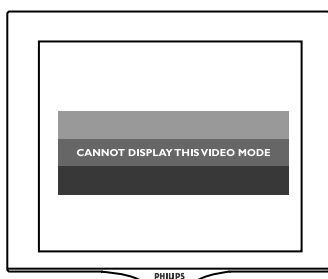
OSD Warning Signal

Warning signals display information and alerts about the status of the monitor.



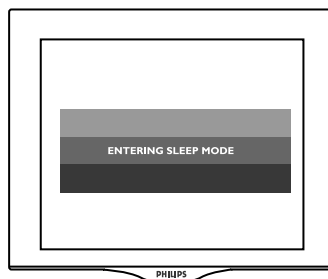
• NO VIDEO INPUT •

This screen is displayed when there is no video signal input. Please check that the signal cable is properly connected to the Video card or PC.



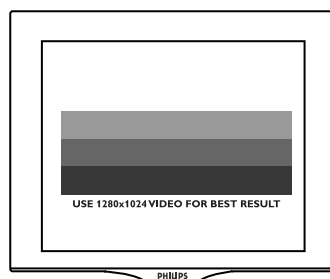
• CANNOT DISPLAY THIS VIDEO MODE •

This screen warns when the input from the computer is not a standard video mode or out of the monitor's scanning range. Please change the display mode of the operating software in the computer (i.e. Windows) to 1280 x 1024 @ 60 Hz for best display results.



• ENTERING SLEEP MODE •

This screen appears when the monitor is about to enter the sleep mode. Please press any key on the keyboard or click the mouse to wake up the monitor and computer.

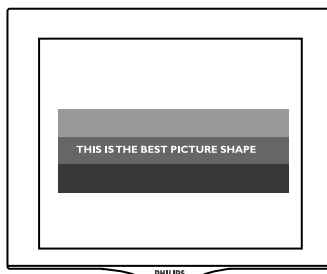


• USE 1280 X 1024 FOR BEST RESULT •

This message appears at the bottom of the OSD window when the video mode input is not the recommended 1280 x 1024. Other modes may result in some picture distortion. Please adjust the video mode to 1280 x 1024 @ 60 Hz for best display quality.

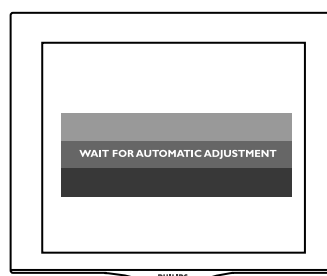


OSD Warning Signal



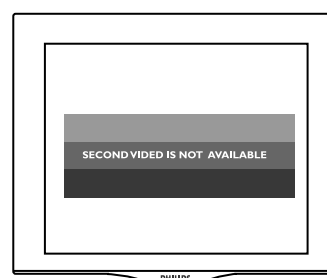
• THIS IS THE BEST PICTURE SHAPE •

This screen appears when the picture size is extended to the edge of viewable area with the same video aspect ratio. The picture size can be further enlarged to full screen size with a distorted aspect ratio if you continuously turn the size control. This applies when the user attempts to stretch 4:3 aspect resolutions (640x480, 800x600, 1024x768 or others) to totally fill the screen.



• WAIT FOR AUTOMATIC ADJUSTMENT •

This screen appears when you touch the AUTO button. It will disappear when the monitor is properly adjusted.



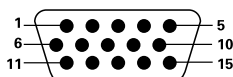
• SECOND VIDEO IS NOT AVAILABLE •

This screen appears when there is no second video source input. Pressing the VIDEO 1-2 BUTTONS on the front of LCD monitor can switch the video input signal between the D-sub and BNC connectors. This message appears if one of the signals is not available.

Pin Assignment

The 15-pin D-sub connector (male) of the signal cable:

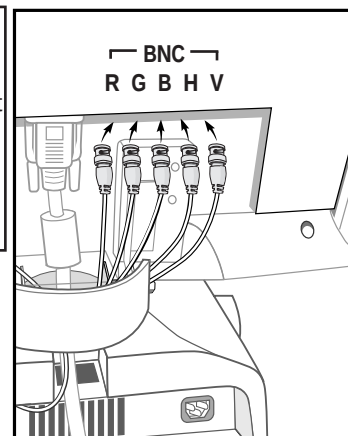
Pin No.	Assignment
1	Red video input
2	Green video input
3	Blue video input
4	Identical output - connected to pin 10
5	Self test
6	Red video ground
7	Green video ground
8	Blue video ground
9	No pin
10	Logic ground
11	Identical output - connected to pin 10
12	Serial data line (SDA)
13	H. Sync / H+V
14	V. Sync (VCLK for DDC)
15	Data clock line (SCL)



BNC Connector

The 5 BNC connectors are positioned as follows:

Pin	Assignment
R:	Red video input
G:	Green video input
B:	Blue video input
H:	Horizontal sync
V:	Vertical sync





Additional information

Automatic Power Saving

If you have a VESA DPMS compliant display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. If input from a keyboard, mouse, or other device is detected, the PC & monitor automatically "wake up." The table below shows the power consumption and signalling of the automatic power-saving feature.

Power Management Definition						
VESA mode	Video	H-sync	V-sync	Power used	Power saving(%)	LED color
ON	Active	Yes	Yes	< 60W	0%	Green
Stand-by	Blanked	No	Yes	< 5 W	88.8%	Amber
Suspend	Blanked	Yes	No	< 5 W	88.8%	Amber
OFF	Blanked	No	No	< 5 W	88.8%	Amber

• Above power consumptions exclude USB watts.

• This monitor is ENERGY STAR® compliant .



As an ENERGY STAR® Partner, PHILIPS has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

The proper operation of the function requires a computer with VESA DPMS power management capabilities.

Acceptable Resolution Modes

The table below shows the 27 video modes that can be displayed with this monitor.

MODE	RESOLUTION	H. FREQ. (KHz)	V. FREQ. (Hz)	STANDARD
1*	640 x 350	31.5	70	IBM VGA 10h
2*	720 x 400	31.5	70	IBM VGA 3h
3*	640 x 480	37.5	75	VESA
4	640 x 480	37.9	72	VESA
5	640 x 480	35.0	67	VESA
6*	640 x 480	31.5	60	VESA
7*	800 x 600	35.2	56	VESA
8*	800 x 600	46.9	75	VESA
9*	800 x 600	37.9	60	VESA
10*	832 x 624	49.7	75	MAC
11	800 x 600	48.1	72	VESA
12*	1024 x 768	60.0	75	VESA
13*	1024 x 768	48.4	60	VESA
14	1024 x 768	56.5	70	VESA
15	1024 x 768	61.1	76	IBM XGA-2
16	1152 x 864	67.5	75	VESA
17	1152 x 864	63.9	70	non-VESA
18*	1152 x 870	68.7	75	MAC
19	1152 x 900	61.8	66	SUN Mode IV
20*	1152 x 900	71.8	76	SUN Mode II
21	1280 x 960	60.0	60	VESA
22	1280 x 960	75.0	75	non-VESA
23	1280 x 1024	76.0	72	DOS/V
24*	1280 x 1024	64.0	60	VESA
25*	1280 x 1024	80.0	75	VESA
26*	1280 x 1024	81.1	76	SUN Mode I
27	1280 x 1024	71.7	67	SUN Mode V

* Factory preset mode.

Specifications

DISPLAY	: 18.1-inch (46 cm)
Type	: Flat panel active matrix-TFT LCD
VIEWABLE IMAGE SIZE (VIS)	: 18.1-inch diagonal (46 cm)
SURFACE TREATMENT	: Anti-glare coating
WEIGHT (UNPACKED)	: 8.5kgs
MAXIMUM DIMENSIONS	
Height	: 476 mm
Depth	: 181 mm
Width	: 451 mm
MAXIMUM GRAPHICS	
RESOLUTION	: 1280 x 1024 at 75 Hz Refresh Rate
TEXT MODE	: 720 x 400
DOT PITCH	: 0.28 mm
HORIZONTAL FREQUENCY	: 30 to 82 kHz
VERTICAL FREQUENCY	: 56 to 76 Hz
ENVIRONMENTAL REQUIREMENTS	
TEMPERATURE	
Operating Temperature	: 41 to 95°F 5 to 35°C
Storage Temperature	: -13 to 140°F -25 to 60°C
HUMIDITY (NON-CONDENSING)	
Operating	: Max. 80%
Non-operating	: Max. 95%
POWER SOURCE	: 100-240VAC±10%,50-60Hz(90-264VAC)
POWER CONSUMPTION	: < 48 watt (typical value, excluding USB)
INPUT TERMINAL	: 15-pin D-type connector with cable or 5 BNC connector
Power Cable	: Non-shield
Pedestal	
Tilt	: 0° - 30°
Swivel	: ±40°

Additional Information

What to Do if Something isn't Working



Troubleshooting

This page presents problems that can be corrected by the user. If the problem still exists after these possible solutions, contact your nearest Philips dealer.

No Picture

(Power LED not lit)

- Make sure the Power cable is plugged to the wall and back of the monitor.
- Make sure the DC power cord has been attached to the DC Jack.
- First, power button in front of the monitor should be in the OFF position, then press it to ON position again.

No Picture

(Power LED is Amber or Yellow in color)

- Make sure the computer is turned on.
- Make sure the signal cable is properly connected to your computer.
- Check to see if the monitor cable has bent pins.
- The Energy Saving Feature may be activated. See pages 2 and 26 for more detail.

Screen says



NO VIDEO INPUT

- Make sure the monitor cable is properly connected to your computer. See Setting Up foldout.
- Check to see if the monitor cable has bent pins.
- Make sure the computer is turned on.

AUTO button not working properly

- The AUTO FUNCTION is designed for use on standard Macintosh or IBM-compatible PC running Microsoft Windows.
- It may not work properly if using non-standard PCs or video card.

Imaging Problems

Display position is incorrect

- Push the AUTO button.
- Adjust the image position using the HORIZONTAL POSITION &/or VERTICAL POSITION in the SECOND WINDOW. See page 16.

Image vibrates on the screen

- Check that the signal cable is properly connected to the graphics board or PC.

Vertical flicker appears



- Push the AUTO button.
- Eliminate the vertical bars using the CLOCK ADJUSTMENT in the FIRST WINDOW. See Page 14 & 15 for details.

Horizontal flicker appears



- Push the AUTO button.
- Eliminate the horizontal bars using the PHASE ADJUSTMENT in the FIRST WINDOW. See Page 14 & 15 for details.

The screen is too bright or too dark

- Adjust the contrast and brightness using the FIRST WINDOW. See Page 13 for details. (The backlight of the LCD monitor has a fixed life span. When the screen becomes dark or begins to flicker, please contact your dealer.)

An after-image appears

- If an image remains in the screen for an extended period of time, it may be imprinted in the screen and leave an after-image. This usually disappears after a few hours.

An after-image remains after the power has been turned off

- This is characteristic of liquid crystal and is not caused by a malfunction or deterioration of the liquid crystal. The after-image will disappear after a set amount of time.

Green, red, blue, dark, and white dots remains on the screen

- The remaining dots are normal characteristic of the liquid crystal used in today's technology.



Additional Information

Index

Accessories	3	Reset	23
Audio-in Cable	3,5,10	Resolution Modes	26
Audio Controls	5, 7-8,10	Rotary Default	22
Automatic Power Saving	26	Rotary knob	7-8
BNC Connector	25	Safety precautions	2
Brightness	7,9,13	Speakers	7
Built-in microphone	7	Specifications	26
Clock Adjustment	15	Troubleshooting	27
Color Temperature	18	Set Up Guide	
Contrast	13	USB hub Installation	6
Correct handling	3,5	USB Control	6
Description of controls	7-9	User Presets	19
Display Size	17	Vertical Position	16
End-of -life disposal	2	Video Input Priority	21
Exit	23	Video Settings	4
Expand Mode Optimization	17	Volume	14
Features	2	Windows '95/'98	4,
Glossary	28	Set Up Guide	
Horizontal Position	16		
Kensington Lock	7		
Installation location	3		
Language	20		
Microphone Cable	3,5,10		
Mute	8		
On Screen Display	9		
OSD button	7,9		
OSD Controls	12,20		
OSD Control Level Structure	11		
OSD Warning Signals	24-25		
Pedestal	8		
Phase Adjustment	15		
Pin Assignment	25		
Power button	Set Up Guide, 7		
Power plug	Set Up Guide, 7		
Power Saving	21		

Glossary

Here are a few definitions that may help you.

D-Sub Your monitor comes with a D-Sub cable.
USB Universal Serial Bus. A way to connect your computer, monitor, and peripherals for true Plug-and-Play functions.

BNC connection

A bayonet-locking connector slim coaxial cables. The connection is used in some monitors with high horizontal scanning frequencies. It provides optimum shielding between the video input signal lines to give the best possible video performance.

Color temperature

A way of describing the color of a radiating source in terms of the temperature (in degrees Kelvin) of a black body radiating with the same dominant frequency as the source.

Energy Star Computers Programme

An energy conservation programme launched by the US Environmental Protection Agency (EPA) with the primary aim of promoting the manufacture and marketing of energy-efficient office automation equipment. Companies joining this programme must be willing to commit themselves to manufacturing one or more products capable of going into a low - power state (< 30 W) either after a period of inactivity or after a predetermined time selected by the user.

Vertical Refresh Rate

Expressed in Hz, it is the number of frames (complete pictures) written to the screen every second.

LCD

Liquid Crystal Display. An alphanumeric display using the unique properties of liquid crystal to form characters. The latest flat-panel displays comprise a matrix of hundreds or thousands of individual LCD cells that generate text and colorful graphics on a screen. They consume little power though they do require external lighting to make them legible to the user.